

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P621906

Luminaire Tested: VLT-FB-150U-100D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621906
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-19)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FB-150U-100D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

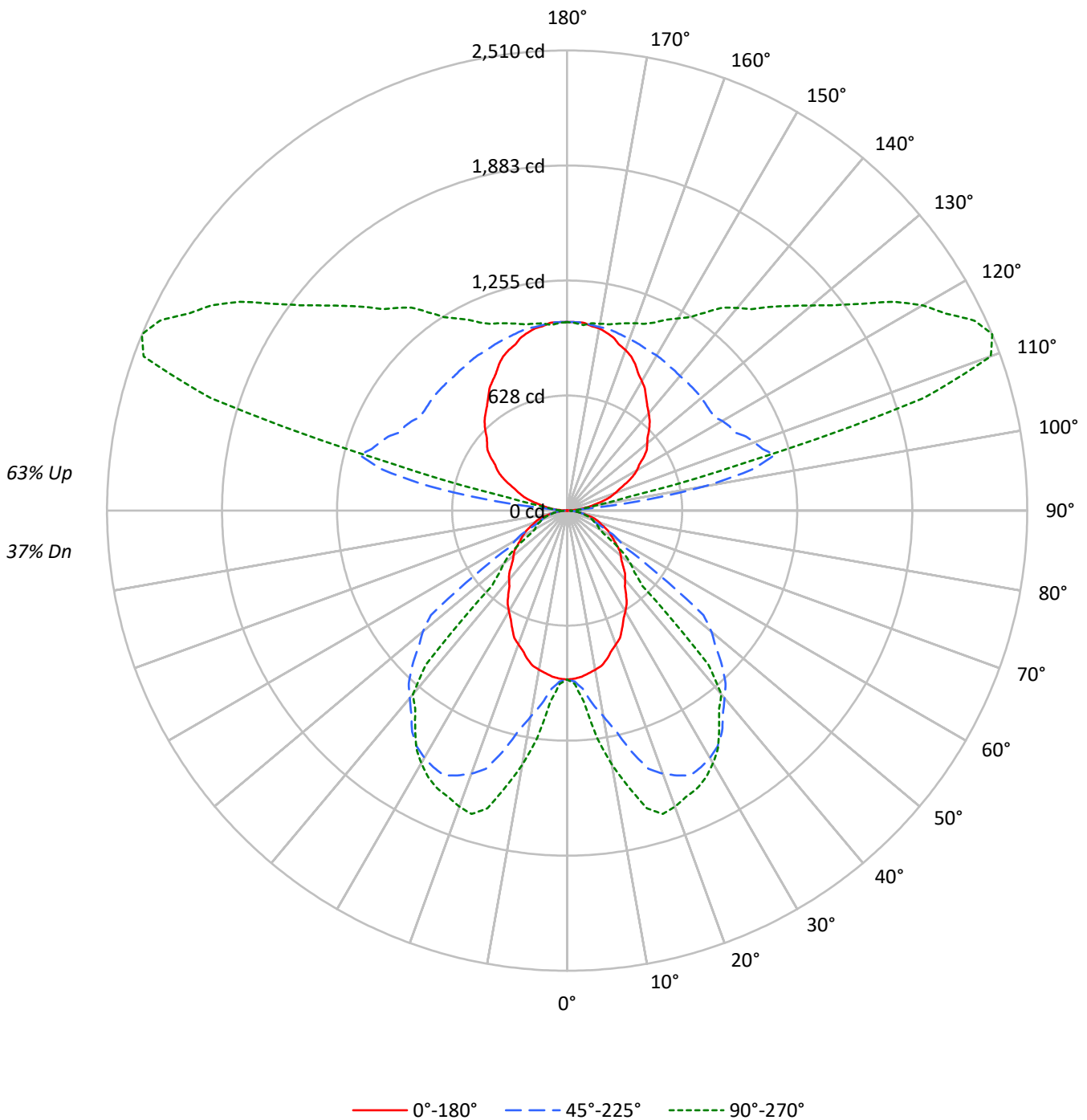
Lumens per Lamp: N/A
Luminaire Lumens: 8828.9 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 77.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	88	84	86	83	80	77	67	65	63	53	52	51	40	39	38	32
2	87	80	75	70	79	73	68	64	60	56	53	47	45	43	36	34	33	28
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	29	24
4	73	63	55	50	66	58	51	46	47	43	39	38	34	32	29	27	25	21
5	67	56	48	43	61	51	45	40	42	37	34	34	30	28	26	24	22	18
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	38	32	52	42	35	30	35	30	26	28	24	22	22	19	17	15
8	53	41	34	29	48	38	31	27	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	35	28	24	29	24	20	23	20	17	18	16	14	12
10	46	34	27	23	42	32	25	21	26	22	18	22	18	15	17	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6610	6610	6610
5°	6554	7025	7525
10°	6425	8308	10258
15°	6231	10125	12489
20°	5933	11665	13124
25°	5618	12614	13251
30°	5258	12906	13186
35°	4903	12906	12660
40°	4613	12504	12258
45°	4388	12121	5871
50°	4263	11474	5057
55°	4146	7682	4005
60°	4030	4674	2902
65°	3941	3561	3019
70°	3888	3103	3103
75°	3790	3219	3114
80°	3327	3248	3095
85°	2470	3392	2931

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12121 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.1
10°-20°	366.2	4.1
20°-30°	620.3	7.0
30°-40°	752.5	8.5
40°-50°	662.3	7.5
50°-60°	409.8	4.6
60°-70°	222.2	2.5
70°-80°	126.6	1.4
80°-90°	43.7	0.5
90°-100°	126.5	1.4
100°-110°	901.3	10.2
110°-120°	1223.6	13.9
120°-130°	995.9	11.3
130°-140°	800.9	9.1
140°-150°	631.5	7.2
150°-160°	461.7	5.2
160°-170°	286.8	3.2
170°-180°	97.8	1.1
0°-30°	1085.9	12.3
0°-40°	1838.3	20.8
0°-60°	2910.5	33.0
0°-90°	3303.0	37.4
90°-120°	2251.3	25.5
90°-150°	4679.6	53.0
90°-180°	5526.0	62.6
0°-180°	8828.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	910	939	975	1017	1045	86
15°	839	967	1363	1612	1681	235
25°	710	971	1593	1641	1674	326
35°	560	900	1473	1453	1445	351
45°	432	740	1194	1012	578	335
55°	331	516	614	355	320	297
65°	232	291	210	180	178	230
75°	137	120	116	114	112	143
85°	30	41	41	37	36	36
90°	0	6	13	19	19	3
95°	52	96	52	58	71	58
105°	201	308	1171	1496	990	212
115°	356	432	1009	2098	2452	353
125°	511	581	951	1663	1967	454
135°	634	704	958	1370	1572	488
145°	750	814	964	1193	1320	471
155°	880	912	983	1082	1132	404
165°	977	990	1009	1036	1055	274
175°	1029	1035	1029	1022	1016	97
180°	1029	1029	1029	1029	1029	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.1	921.1	921.1	921.1	921.1
2.5°	918.1	928.3	933.0	942.1	946.5
5°	909.8	939.1	975.3	1017.2	1044.6
7.5°	895.2	947.6	1062.2	1194.2	1250.5
10°	881.7	953.1	1140.1	1330.9	1407.8
12.5°	866.8	958.7	1231.4	1462.7	1541.1
15°	838.7	966.8	1362.9	1611.6	1681.1
17.5°	802.4	971.9	1476.7	1690.4	1735.0
20°	776.9	972.8	1527.6	1700.3	1718.6
22.5°	752.9	973.7	1563.6	1676.2	1691.6
25°	709.5	971.3	1593.1	1640.7	1673.6
27.5°	666.1	960.4	1578.5	1616.9	1640.7
30°	634.6	949.5	1557.6	1589.4	1591.3
32.5°	604.7	931.2	1526.1	1535.4	1532.9
35°	559.7	900.2	1473.3	1452.6	1445.2
37.5°	517.8	859.0	1396.2	1362.8	1361.0
40°	492.4	829.2	1334.8	1303.1	1308.6
42.5°	468.4	794.9	1279.4	1242.2	1139.3
45°	432.4	740.0	1194.4	1012.3	578.5
47.5°	401.4	677.4	1098.2	542.3	498.0
50°	381.9	634.5	1027.8	476.8	453.0
52.5°	362.4	594.5	936.4	428.7	397.6
55°	331.4	516.2	614.0	354.9	320.1
57.5°	301.8	433.9	375.2	275.8	238.1
60°	280.8	385.1	325.7	222.3	202.2
62.5°	261.3	345.2	277.8	197.2	193.2
65°	232.1	290.7	209.7	179.7	177.8
67.5°	204.8	238.9	159.9	161.7	159.9
70°	185.3	201.8	147.9	149.7	147.9
72.5°	167.4	166.3	135.9	134.7	132.9
75°	136.7	120.2	116.1	114.2	112.3
77.5°	104.5	88.7	93.6	91.7	89.9
80°	80.5	75.0	78.6	76.7	74.9
82.5°	59.5	61.4	63.7	60.2	58.4
85°	30.0	40.9	41.2	37.4	35.6
87.5°	9.0	19.0	19.1	17.3	15.9
90°	0.0	6.3	12.9	19.4	19.4
92.5°	15.5	21.9	28.5	40.2	45.3
95°	51.8	96.0	51.8	58.5	71.2
97.5°	91.9	184.2	380.4	112.2	97.0
100°	122.9	230.5	763.4	224.7	148.8
102.5°	154.0	266.6	1032.6	593.0	324.8
105°	200.6	308.1	1171.0	1496.0	989.9
107.5°	247.1	328.1	1118.0	2177.2	2039.3
110°	278.2	354.1	1086.9	2287.7	2458.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	309.3	385.2	1055.9	2223.1	2510.3
115°	355.8	431.7	1009.3	2097.8	2452.0
117.5°	403.7	478.4	997.6	1962.2	2326.5
120°	439.9	509.5	976.9	1859.0	2238.5
122.5°	465.8	540.5	951.1	1770.3	2119.5
125°	511.1	580.7	951.1	1663.2	1966.8
127.5°	548.6	619.5	952.3	1538.9	1838.7
130°	569.3	645.3	957.5	1455.7	1740.4
132.5°	595.2	671.1	957.5	1418.3	1652.4
135°	634.0	703.6	957.5	1369.7	1572.2
137.5°	666.4	741.0	957.5	1316.0	1489.3
140°	692.3	761.9	957.5	1284.6	1442.8
142.5°	718.1	782.7	962.7	1248.1	1396.2
145°	750.5	813.8	964.0	1193.3	1319.8
147.5°	789.3	845.0	971.8	1153.8	1251.3
150°	815.2	865.8	976.9	1127.6	1209.8
152.5°	841.1	886.6	976.9	1106.6	1173.6
155°	879.9	911.5	983.4	1081.6	1132.2
157.5°	910.9	941.3	991.2	1065.8	1102.4
160°	931.6	957.0	996.3	1055.3	1086.9
162.5°	947.2	972.5	1001.5	1049.9	1071.4
165°	976.9	989.6	1009.3	1035.6	1054.6
167.5°	993.8	1005.1	1015.8	1029.0	1040.3
170°	1009.3	1015.6	1015.8	1028.8	1035.2
172.5°	1014.5	1025.8	1020.9	1023.7	1030.0
175°	1028.7	1035.0	1028.7	1022.1	1015.8
177.5°	1028.7	1033.8	1028.7	1028.6	1023.5
180°	1028.7	1028.7	1028.7	1028.7	1028.7

(END OF REPORT)